

IN THE CLAIMS

Please cancel claims 1-4 without prejudice or disclaimer.

1-4 (Canceled)

5) (Withdrawn) In a method of fabricating the thermoelectric cell, wherein molten thermoelectric material of the first or the second type is placed between concentric pipes that are inexpensively sliced into wafers and each wafer is used as a thermoelectric cell.

6) (Withdrawn) In a method of fabricating the thermoelectric cell, wherein the inner electrode is eccentrically located.

7) (Withdrawn) The method of claim 6, wherein the close distance between electrodes promotes carrier tunneling in addition to electrical conduction.

8) (new) A cylindrical thermoelectric generator, comprising:

a first electrode being centrally positioned within a cylinder;

a second electrode being peripherally positioned around the cylinder;

wherein the cylindrical thermoelectric generator is formed of a single type of thermoelectric material and operates in a Peltier mode and in a Seebeck mode.

9) (New) A cylindrical thermoelectric generator as in claim 8, wherein the cylinder thermoelectric generator is a first type of generator.

10) (New) A cylindrical thermoelectric generator as in claim 8, wherein the cylindrical thermoelectric generator is a second type of generator.

11) (New) A cylindrical thermoelectric generator, comprising:

a first cylinder electrode of the first type;

a second cylinder electrode of a second type;

wherein the first cylinder electrode of the first type and the second cylinder electrode of the second type sequentially alternating and only adjacent electrodes being connected together.

12) (New) A cylindrical thermoelectric generator as in claim 11 wherein the first cylinder electrode is a first polarity.

13) (New) A cylindrical thermoelectric generator as in claim 11, wherein the second cylinder electrode is a second polarity.